

REMARKS

At the outset, the Examiner is thanked for the thorough review and consideration of the pending application. The Office Action dated June 13, 2006, has been received and its contents carefully reviewed.

Claims 13, 14, 16, 18, 23-25, 28-30 and 32 are rejected to by the Examiner. Claims 13, 23, and 28 have been amended. Claims 13, 14, 16, 18, 23-25, 28-30 and 32 remain pending in this application.

In the Office Action, claims 13, 14, 16, 18, 28-30 and 32 are rejected under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent No. 6,643,882 to Sotozaki et al. (hereinafter "Sotozaki"). Claims 13, 14, 16, 18, 23-25, 28-30 and 32 are rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent No. 5,976,267 to Culkins et al. (hereinafter "Culkins") in view of U.S. Patent No. 6,202,658 to Fishkin et al. (hereinafter "Fishkin") and further in view of U.S. Patent No. 6,261,378 to Hashimoto et al. (hereinafter "Hashimoto").

The rejection of claims 13, 14, 16, 18, 23-25, 28-30 and 32 is respectfully traversed and reconsideration is requested.

Sotozaki is cited under 35 U.S.C. § 102(e) and was filed on June 16, 2000. The present application claims priority to Korean Patent Application Number 1999-44599 that was filed on October 14, 1999. Enclosed is a certified translation of Korean Patent Application Number 1999-44599. Hence, Sotozaki is not prior art against the present invention.

Claims 13, 14, 16, and 18 are allowable over the cited references in that each of these claims recites a combination of elements including, for example, "brushing the side surface of the substrate with a brush that extends partially along the side surface of the substrate in substantially a straight line." Claims 23-25 are allowable over the cited references in that each of these claims recites a combination of elements including, for example, "brushing the side surface of the substrate with cleaning brushes that extend partially along the side surface of the substrate in substantially a straight line while moving the substrate continuously in a linear direction." Claims 28-30 and 32 are allowable over the cited references in that each of these claims recites a combination of elements including, for example, "brushing at least two opposing side surfaces with cleaning brushes that extend partially along the at least two opposing side surfaces of the substrate in substantially a straight line." None of the cited references including Culkins,

Fishkin, and Hashimoto, singly or in combination, teaches or suggests at least this feature of the claimed invention.

The examiner does not explicitly identify brushes 222 and 322 in Culkins, but they are the only brushes shown that brush the side of the rotating substrate 102. These brushes are circular and only contact a small portion of the edge of the substrate 102. Because the brushes are round they do not "extend partially along the side surfaces of the substrate in substantially a straight line." Specifically, because the brush is curved and the substrate is curved, the brush does not extend partially along the side surface of the substrate, and the brush and edge of the substrate only have a small contact area. Also, as the brush is curved it does not extend in substantially a straight line. Accordingly, Applicant respectfully submits that claims 13, 14, 16, 18, 23-25, 28-30 and 32 are allowable over the cited references.


Applicants believe the foregoing amendments place the application in condition for allowance and early, favorable action is respectfully solicited.

If for any reason the Examiner finds the application other than in condition for allowance, the Examiner is requested to call the undersigned attorney at (202) 496-7500 to discuss the steps necessary for placing the application in condition for allowance. All correspondence should continue to be sent to the below-listed address.

If these papers are not considered timely filed by the Patent and Trademark Office, then a petition is hereby made under 37 C.F.R. § 1.136, and any additional fees required under 37 C.F.R. § 1.136 for any necessary extension of time, or any other fees required to complete the filing of this response, may be charged to Deposit Account No. 50-0911. Please credit any overpayment to deposit Account No. 50-0911. *A duplicate copy of this sheet is enclosed.*

Respectfully submitted,

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